27. A system comprising:

a memory storing a codestream with a header having at least one marker to identify locations of data within the codestream;

at least one output device;

a parser coupled to the memory and coupled to receive device characteristics from said at least one output device, wherein the parser is operable to perform device-dependent quantization, prior to decoding the codestream, on the codestream in view of the device characteristics using the at least one marker to identify locations of data within the codestream when selecting portions of the codestream for output to the at least one output device.

- 29. The system defined in Claim 27 wherein said at least one marker indicates the number of components, any subsampling, and any alignment used for every tile in codestream.
- 30. The system defined in Claim 27 wherein the codestream includes a main header and one or more tiles and each of the one or more tiles in the codestream is preceded by a local header.
- 31. The system defined in Claim 30 wherein the main header includes information that applies to all tiles in the codestream and each local header includes information that only applies to the tile to which it precedes.
- 32. The system defined in Claim 31 wherein information in at least one of the local headers overrides information in the main header.

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- 33. The system defined in Claim 27 wherein the parser uses markers in the codestream to identify portions of the codestream for truncation.
- 34. The system defined in Claim 33 wherein at least one of the markers indicates frequency information.
- 37. The system defined in Claim 36 wherein the quantization selection apparatus transforms and quantizes a set of compressed image data by discarding bitplanes of various coefficients in the compressed image data.
- 38. The system defined in Claim 27 wherein the codestream includes one or more tags, and wherein one of the one or more tags indicates importance levels within the data in each tile.
- 39. The system defined in Claim 27 wherein the codestream includes one or more tags, and wherein at least one tag indicates importance level locator signals by which the parser truncates the codestream.
- 40. The system defined in Claim 27 wherein the codestream includes one or more tags, and wherein at least one tag indicates the number of importance levels to be kept in the codestream.

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- 41. The system defined in Claim 27 wherein the codestream includes one or more tags, and wherein at least one tag indicates the number of bytes to keep in the codestream.
- 42. The system defined in Claim 27 wherein the codestream includes one or more tags, and wherein at least one tag includes an indication in each tile associates the number of bytes with the importance level.
- 43. The system defined in Claim 33 wherein the at least one marker indicates the number of bytes of an importance level in each tile.

44. A system comprising

a parser responsive to receiving a codestream having compressed data and markers that include at least one marker to indicate a location of at least one bit plane of a coding unit within a codestream for parsing, the parser to parse the bit stream to make truncated data, thereby quantizing the codestream; and

a channel coupled to receive the truncated data.

45. The system defined in Claim 44 wherein the parser performs parsing without decoding or reencoding the compressed data.

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- 46. The system defined in Claim 44 wherein the parser selects compressed data from the codestream to include in the truncated data based on output device characteristics.
- 47. The system defined in Claim 44 wherein the parser receives characteristics of an output device to determine quantization necessary for the output device.
- 48. The system defined in Claim 44 wherein the at least one marker indicates what the compressed data in the codestream is.

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- 49. The system defined in Claim 44 wherein the at least one marker is in a tag in the codestream, the parser using the tag to guide in quantizing the codestream.
- 50. The system defined in Claim 44 wherein the parser selects compressed data from the codestream based on characteristics of an output device.
 - 51. The system defined in Claim 50 wherein the output device is a display.
 - 52. The system defined in Claim 50 wherein the output device is a printer.

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- 53. The system defined in Claim 52 wherein the printer is a high spatial resolution, low pixel depth printer.
- 54. The system defined in Claim 44 further comprising a decompressor coupled to receive the truncated data and decompress the truncated data for an output device.
- 55. The system defined in Claim 44 wherein the parser quantizes the codestream to obtain a predetermined level of distortion.
- 56. The system defined in Claim 44 wherein the parser quantizes the codestream by performing scaling.
 - 57. The system defined in Claim 44 wherein performing scaling comprises choosing resolution.
 - 58. The system defined in Claim 44 wherein the parser quantizes the codestream by performing thresholding.
 - 59. The system defined in Claim 44 wherein the parser quantizes the codestream by performing dithering.

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- 60. The system defined in Claim 44 wherein the parser quantizes the codestream by discarding bit planes of one or more frequency bands.
- 61. The system defined in Claim 44 wherein the truncated data includes bit planes that lead to a predetermined level of distortion.
- 62. The system defined in Claim 44 wherein the truncated data includes bit planes that lead to a predetermined bit rate.
- 63. The system defined in Claim 44 wherein the parser selects compressed data to allow decomposition of a region of interest.
 - 64. The system defined in Claim 44 wherein the truncated data consists of bits necessary to a transition from a preview image to a printer resolution image.
 - 65. The system defined in Claim 44 wherein the truncated data consists of bits necessary to a transition from a preview image to a medical monitor image.
 - 66. The system defined in Claim 44 wherein the at least one marker is in a tag for each tile.

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- 67. The system defined in Claim 44 wherein each tile in the codestream is preceded by a header.
- 68. The system defined in Claim 44 wherein the at least one marker is in a header in the codestream.
- 69. The system defined in Claim 44 wherein the parser modifies tags in the codestream after quantization of parsing.
- 70. The system defined in Claim 69 wherein the parser modifies tags to reflect the truncated data as a new codestream.
 - 71. The system defined in Claim 44 wherein the compressed data comprises a lossless compression image.
 - 72. The system defined in Claim 44 further comprising a compressor to create the compressed data.

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73. A method comprising

receiving a codestream having compressed data and markers that include at least one marker to indicate a location of at least one bit plane of a coding unit within a codestream for parsing;

parsing the bit stream using a parser to make truncated data, thereby quantizing the codestream; and

sending the truncated data to a channel.

74. The method defined in Claim 73 wherein parsing the bit stream occurs without decoding or reencoding the compressed data.

ODU;

75. The method defined in Claim 73 wherein parsing the bit stream comprises selecting compressed data from the codestream to include in the truncated data based on output device characteristics.

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76. The method defined in Claim 73 further comprising:

the parser receiving characteristics of an output device; and

determining quantization necessary for the output device based on the
characteristics.

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- 77. The method defined in Claim 73 wherein the at least one marker indicates what the compressed data in the codestream is.
- 78. The system defined in Claim 73 wherein the at least one marker is in a tag in the codestream, and further wherein parsing the bit stream comprises using the tag to guide in quantizing the codestream.
- 79. The method defined in Claim 73 wherein parsing the bit stream comprises the parser selecting compressed data from the codestream based on characteristics of an output device.

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- 80. The method defined in Claim 79 wherein the output device is a display.
- 81. The method defined in Claim 79 wherein the output device is a printer.
- 82. The method defined in Claim 79 wherein the printer is a high spatial resolution, low pixel depth printer.
- 83. The method defined in Claim 73 wherein parsing the bit stream comprises performing quantization to obtain a predetermined level of distortion.

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- 84. The method defined in Claim 73 wherein parsing the bit stream comprises performing scaling.
- 85. The method defined in Claim 73 wherein performing scaling comprises choosing a resolution.
- 86. The method defined in Claim 73 wherein parsing the bit stream comprises performing thresholding.
- 87. The method defined in Claim 73 wherein parsing the bit stream comprises performing dithering.
 - 88. The method defined in Claim 73 wherein parsing the bit stream comprises discarding bit planes of one or more frequency bands.
 - 89. The method defined in Claim 73 wherein the truncated data includes bit planes that lead to a predetermined level of distortion.
 - 90. The method defined in Claim 73 wherein the truncated data includes bit planes that lead to a predetermined bit rate.

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- 91. The method defined in Claim 73 wherein the parser selects compressed data to allow decomposition of a region of interest.
- 92. The method defined in Claim 73 wherein the truncated data consists of bits necessary to a transition from a preview image to a printer resolution image.
- 93. The method defined in Claim 73 wherein the truncated data consists of bits necessary to a transition from a preview image to a medical monitor image.
- 94. The method defined in Claim 73 wherein the at least one marker is in a tag for each tile.

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- 95. The method defined in Claim 73 wherein each tile in the codestream is preceded by a header.
- 96. The method defined in Claim 73 wherein the at least one marker is in a header in the codestream.
- 97. The method defined in Claim 73 further comprising modifying tags in the codestream after quantization of parsing.

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- 98. The method defined in Claim 97 wherein modifying tags in the codestream comprises modifying tags to reflect the truncated data as a new codestream.
- 99. An article of manufacture having one or more recordable media storing instructions thereon which, when executed by a system, cause the system to:

receive a codestream having compressed data and markers that include at least one marker to indicate a location of at least one bit plane of a coding unit within a codestream for parsing;

parse the bit stream using a parser to make truncated data, thereby quantizing the codestream; and

send the truncated data to a channel.

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- 100. The article of manufacture defined in Claim 99 wherein parsing the bit stream occurs without decoding or reencoding the compressed data.
- 101. The article of manufacture defined in Claim 99 wherein the instructions that cause the system to parse the bit stream comprise instructions which, when executed by the system, cause the system to select compressed data from the codestream to include in the truncated data based on output device characteristics.

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102. The article of manufacture defined in Claim 99 further comprising instructions which, when executed by the system, cause the system to:

receive characteristics of an output device; and

determine quantization necessary for the output device based on the characteristics.

- 103. The article of manufacture defined in Claim 99 wherein the at least one marker indicates what the compressed data in the codestream is.
- 104. The article of manufacture defined in Claim 99 wherein the instructions to cause the system to parse the bit stream comprise instructions, which when executed by the system, cause the system to select compressed data from the codestream based on characteristics of an output device.
- 105. The article of manufacture defined in Claim 104 wherein the output device is a display.
- 106. The article of manufacture defined in Claim 104 wherein the output device is a printer.

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107. The article of manufacture defined in Claim 106 wherein the printer is a high spatial resolution, low pixel depth printer.

108. A system comprising:

a parser to receive a codestream of lossless compressed data with markers;

a channel coupled to the parser;

a decompressor coupled to the channel; and

an output monitor coupled to supply output supply characteristics to the parser to control quantization performed by the parser, the parser to parse the codestream based on one or more markers in the codestream in order to perform device dependent quantization of the codestream.

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